

HOOD CANAL - NORTHEAST HOOD CANAL COHO

STOCK STATUS

1992 STATUS

Depressed

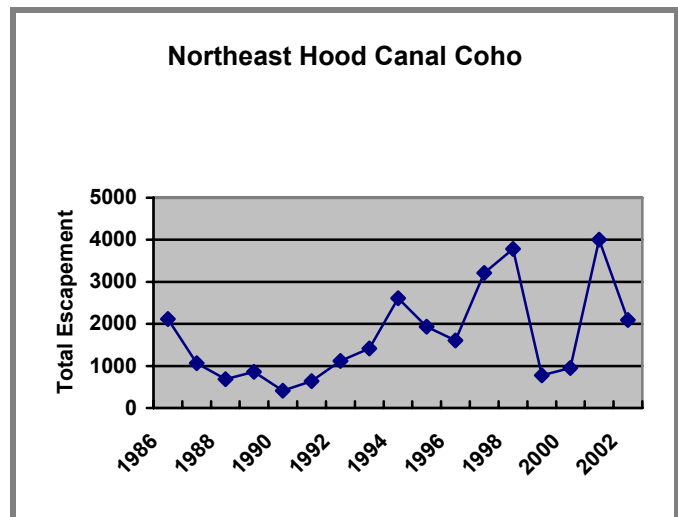
2002 STATUS

Healthy

STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: Good

BROOD		
YEAR	TOTAL WILD ESCAPEMENT	SMOLT COUNTS
1986	2,118	24,479
1987	1,067	11,510
1988	684	26,534
1989	858	17,594
1990	408	19,565
1991	636	13,071
1992	1,115	18,431
1993	1,412	16,574
1994	2,611	25,820
1995	1,936	40,828
1996	1,603	22,222
1997	3,213	20,967
1998	3,779	47,089
1999	777	21,855
2000	950	24,352
2001	4,000	36,060
2002	2,093	



Total escapement estimates are based on adult wild coho counted at the WDFW research weir at RM 0.1 on Big Beef Creek. Coho smolts are counted at a downstream trap at RM 0.1 on Big Beef Creek. Hatchery-origin fish have been excluded from the escapement estimates, however estimates of stray hatchery coho entering Big Beef Creek are available from 1991 to the present.

This stock is rated **Healthy** in 2002 because the total escapement for Big Beef Creek indicator stock has met or exceeded the maximum sustained harvest (MSH) escapement level of 1,260 adults (PNPTC et al. 1994) and smolt production has met or exceeded the long term average throughout the 1990s. Stray hatchery coho adults can comprise a substantial portion (>10%) of the total escapement in some years, however.

STOCK DEFINITION

Northeast Hood Canal coho were provisionally identified as a stock based on the proximity and similar characteristics of their spawning streams.

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SPAWNING DISTRIBUTION: Spawning takes place in Big Anderson, Stavis, Seabeck, Big Beef, Little Beef, Gamble, Miller, Lake and Kinman creeks on the east side of Hood Canal, in Thorndyke and Shine creeks on the west side of Hood Canal, and in numerous smaller, independent west side drainages.

SPAWNING TIMING: Spawning generally occurs from late November to early January.

GENETIC ANALYSIS: No genetic analysis has been done on Northeast Hood Canal coho.

STOCK ORIGIN

This is a **mixed** stock with **wild** production. Six off-station fingerling/fry plants have been made into Big Beef, Seabeck or Stavis creeks utilizing Minter Creek, George Adams, Skykomish and Quilcene hatchery stocks. Releases of Quilcene, Green River, Hood Canal and Dungeness hatchery stocks were made into Shine and Throndyke creeks. Since 1981 substantial numbers of extended-reared Dungeness Hatchery or Quilcene National Fish Hatchery coho have been released annually from net pens in Port Gamble Bay and Quilcene Bay. This stock is likely a mixture of native and introduced non-native stocks.